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**6-1/2" BUILDER GRADE IN-CEILING LOUDSPEAKER**

**LSC-BG**

# LSC-BG

6-1/2" BUILDER GRADE IN-CEILING LOUDSPEAKER

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## **FEATURES: LSC-BG**

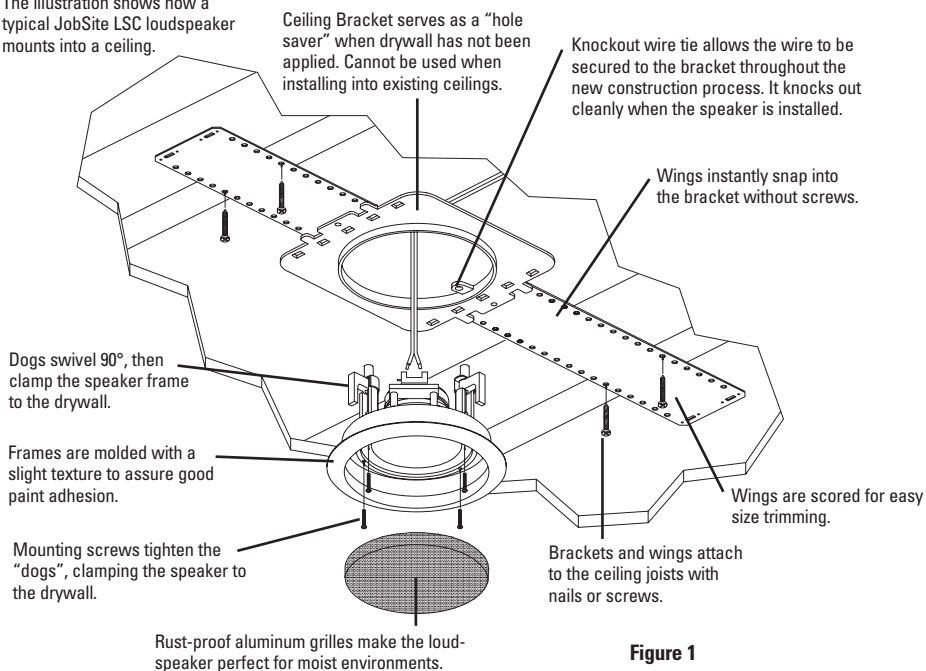
- 6-1/2" Polypropylene woofer with urethane surround
- 3/4" Fluid-cooled ultra-wide Kaladex® tweeter
- Moisture and UV resistant
- Rust proof aluminum grilles

### **Installation friendly design:**

- Suitable for painting
- Connection terminals accept up to 12 gauge speaker wire
- Quick mounting system for new construction or retrofit installations
- Includes hole template and paint mask
- Ceiling Bracket for New Construction: Jobsite NCB-6 (sold separately)

## PRODUCT OVERVIEW

The illustration shows how a typical JobSite LSC loudspeaker mounts into a ceiling.



**Figure 1**

## PACKAGE CONTENTS

- Speakers x 2
- Speaker grilles x 2
- Speaker cutout template / paint mask x 1

## PREPARING FOR INSTALLATION

If you are installing the LSC-BG into an existing ceiling, take time to consider any possible obstructions which may be hidden inside the ceiling: ceiling joists, electrical wiring, telephone wiring, plumbing, AC or heating conduit and ductwork.

Determine the best mounting locations based on the room layout. Before cutting any holes, make sure the area behind both speakers is clear for installation. Speakers provide the best coverage, when centered in the room. Line up the speakers with a permanently mounted ceiling fixture such as can lights, or a light fixture.

If you are installing the speakers into a new ceiling follow the above recommendations and install a set of JobSite NCB-6 Ceiling Brackets, prior to the drywall being installed.

Run speaker wire from each location to the amplifier location. Label the speakers wires at the amplifier end, so you know which wire goes to each speaker.

## TOOLS REQUIRED

- Stud Locator (for existing construction)
- Drywall saw (for existing construction)
- Pencil (for existing construction)
- Cordless screwdriver with No2 Philips bit
- Wire stripper
- Wire labels

## INSTALLATION

### Installation Existing Construction:

1. Use a stud locator to identify the location of the ceiling joists on each side of the proposed loudspeaker mounting location.
2. Mark ceiling joists' edges, using masking tape.
3. Repeat this process for the other loudspeaker locations.
4. You may have to adjust the loudspeaker mounting locations based on how the ceiling joists line up with the proposed speaker mounting locations.
5. Check for clearance using the following method:
  - a. Drill a 1/4" pilot hole in the center of the intended speaker location.
  - b. Cut a foot-long piece of coat hanger.
  - c. Bend the wire, creating a right angle, leaving 4-1/4" at one end.
  - d. Poke the "L-shaped" wire into the pilot hole and turn it in a complete circle, checking for obstructions.
  - e. Push it up into the ceiling cavity to make sure you have approximately 4" of depth.
  - f. If the coat hanger's movement is obstructed by anything, fill the hole(s) with spackle and try another location.
6. Locate the hole template and remove the inside portion of it. The inside portion can be used as a paint mask, if you are painting the frame of the loudspeaker.
7. Use a pencil and hole template to trace the hole outline in the desired location on the ceiling.
8. Use a drywall saw to cut along the penciled line.
9. Strip 1/4" of insulation from the end of each wire coming from the amplifier.
10. Tightly twist the end of each wire until no frayed ends remain.
11. Attach the speaker wires to the speaker terminal connectors. Connect the negative output from the amplifier to the black terminal and the positive output to the red terminal.
12. There are four clamps "dogs" which hold each speaker in place. Rotate all the dogs inward.
13. Insert the loudspeaker into the cutout in the ceiling.
14. The dogs are tightened via four front-baffle screws. Tighten the dogs by turning the screws clockwise, while pressing the loudspeaker against the ceiling. **NOTE: DO NOT OVER TIGHTEN THESE SCREWS.** Over-tightening the screws may make the grille difficult to install.
15. Install the grille into the speaker.
16. Repeat this procedure for the next speaker.

### New Construction Installation:

Install the proper ceiling bracket for this loudspeaker (NCB-6) using the instructions supplied with the bracket. After the hole is cut in the drywall per the bracket instructions, perform the following steps:

1. Strip 1/4" of insulation from the end of each wire coming from the amplifier.
2. Tightly twist the end of each wire until no frayed ends remain.
3. Attach the speaker wires to the speaker terminal connectors. Connect the negative output from the amplifier to the black terminal and the positive output from the amplifier to the red terminal.

4. There are four clamps “dogs” which hold each speaker in place. Rotate all the dogs inward.
5. Insert the loudspeaker into the cutout in the ceiling.
6. The dogs are tightened via four front-baffle screws. Tighten the dogs by turning the screws clockwise, while pressing the loudspeaker against the ceiling. **NOTE: DO NOT OVERTIGHTEN THESE SCREWS.** Overtightening the screws may make the grille difficult to install.
8. Install the grille into the speaker.
9. Repeat this procedure for the next speaker.

### **Removing the Grilles:**

To remove the grille from the LSC-BG, obtain a small paper clip (size #1, common) and bend the last quarter inch of it into an “L” shape. Holding the paper clip with a pair of pliers, insert the end with the “L” into a hole near the edge of the grille. Remove the grille by pulling the paper clip towards you.

### **Painting the Speakers:**

The speakers must be masked prior to painting them. The inside circular portion of the hole template can be used as a paint mask. Remove the outside portion of the template by gently pulling along the perforation. Affix the mask to the front of the speaker using a piece of tape. Fold the tape onto itself to form a double-sided loop. Affix the tape to the tweeter and place the mask onto the speaker.

### **Painting the Grilles:**

The LSC-BG grilles should be painted before they are installed on the speakers. The best results will be obtained by using a spray gun or airless sprayer. Thin the paint, and then apply several light coats. This technique helps prevent clogging of grille

holes. Paint both sides of the grille to cover all the white paint.

## **OPERATION**

### **Listening at Higher Volumes**

It requires more power to achieve a reasonable volume of sound in a large room than it does in a small room. It is possible to turn the volume so high that the amplifier runs out of power. This creates “clipping” distortion.

Clipping distortion makes treble sound very harsh and unmusical. When you hear harsh sounding treble from any good speaker, turn the volume down immediately! You are much less likely to damage a speaker with a large amplifier because it will be more difficult to produce clipping distortion.

### **SPECIFICATIONS: LSC-BG**

#### **Power handling:**

5 – 75 watts

#### **Frequency response:**

55Hz-20kHz +/- 4dB

#### **Impedance:**

8 ohms

#### **Dimensions:**

9-1/4” outside frame diameter

8” diameter hole cutout

2-3/4” deep when installed in 1/2” drywall

#### **Ceiling Bracket for New Construction:**

JobSite NCB-6 (sold separately)

**Warranty:** 5 year limited

LIMITED WARRANTY

JobSite Systems ("JobSite") warrants to the original retail purchaser only that this product will be free of manufacturing defects in material and workmanship for the following periods and subject to the limitations and exclusions set forth below:

Lifetime Warranty

All Passive Loudspeaker Products (those not requiring AC or battery power).

Ten years from the date of purchase

All Other Passive Products (those not requiring AC or battery power).

Two years from the date of purchase

All Active Products (those requiring AC or battery power).

This warranty is not transferable to subsequent purchasers of the product. To obtain warranty service, contact the authorized dealer where you purchased your product or take the unit to the nearest authorized JOBSITE dealer (with proof of purchase – claims made without proof of purchase will be denied) who will test the product and if necessary, forward it to JOBSITE for service. If there are no authorized JOBSITE dealers in your area, you must contact JOBSITE to receive a factory Return Authorization Number. DO NOT RETURN ANY UNIT WITHOUT FIRST RECEIVING WRITTEN AUTHORIZATION AND SHIPPING INSTRUCTIONS FROM JOBSITE.

Upon examination, JOBSITE will, at its sole option and expense, repair or replace any product found to be defective. JOBSITE will return the repaired or replaced unit to you via its usual shipping method from the factory to your address in the United States of America or Canada only. Any shipping costs for addresses outside of the United States or Canada shall be the responsibility of the purchaser. In the event that this model is no longer available and cannot be repaired effectively, JOBSITE, at its sole option, may replace it with a different model of equal or greater value, or refund the original purchase price paid. **THE FOREGOING ARE YOUR EXCLUSIVE REMEDIES FOR BREACH OF WARRANTY.**

This Warranty does not include service or parts to repair damage caused by improper use or handling, including but not limited to damage caused by accident, mishandling, improper installation, commercial use, abuse, negligence, or normal wear and tear, or any defect caused by repair to the product by anyone other than JOBSITE.

This warranty does not cover reimbursement for your costs of removing and transporting the product for warranty service evaluation, or installation of any replacement product provided under this warranty.

This Warranty will be void if the Serial Number on the product has been removed, tampered with or defaced.

**THE FOREGOING WARRANTIES ARE EXCLUSIVE AND IN LIEU OF ALL OTHER EXPRESSED AND IMPLIED WARRANTIES. JOBSITE EXPRESSLY DISCLAIMS ALL SUCH OTHER WARRANTIES, INCLUDING BUT NOT LIMITED TO IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT, WITH RESPECT TO THE PRODUCT. TO THE MAXIMUM EXTENT PERMITTED BY LAW, JOBSITE SHALL NOT BE RESPONSIBLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES EXCEPT TO THE EXTENT PROVIDED (OR PROHIBITED) BY APPLICABLE LAW, EVEN IF JOBSITE HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.**

Notwithstanding the above, if you qualify as a "consumer" under the Magnuson-Moss Warranty Act, or applicable state laws, then you may be entitled to any implied warranties allowed by law for the Warranty Period. Further, some states do not allow limitations on how long an implied warranty lasts or allow the exclusion or limitation of consequential damages, so such limitations may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

For the name of your nearest authorized JOBSITE dealer, contact: JOBSITE SYSTEMS, 12331 SW 130 ST, Miami, Florida 33116-0818, or call 1-866-452-7483.

Please fill in your product information and retain for your records.

Model \_\_\_\_\_ Serial No. \_\_\_\_\_  
\_\_\_\_\_ Purchase Date \_\_\_\_\_

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